

SM10 LED Street Light

Professional LED lamp replacing 250-750W Metal halide lamp
High power Philips 3030 LED light source



Product Name : 50-150W LED Street Light

Part No: TY-SM10DW-50/100/150W

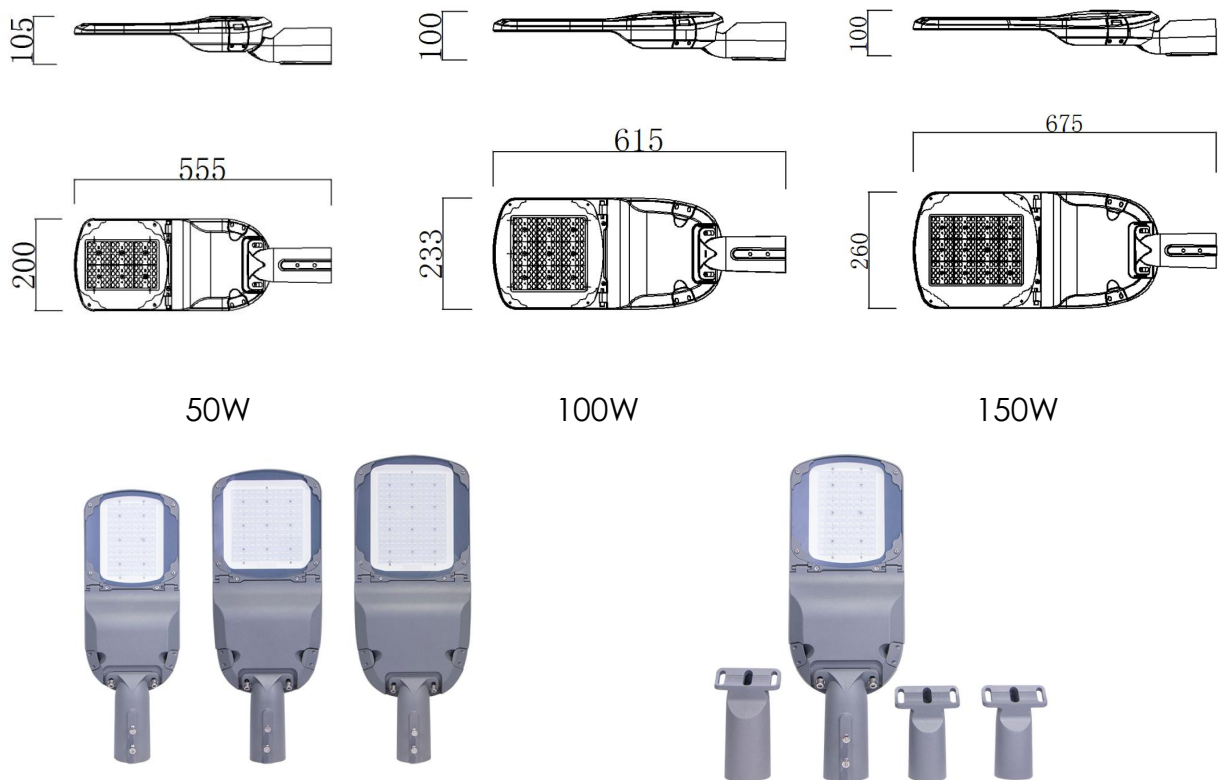
Approval No : 2018121901



Tonya guarantee that all products
being sold are QC passed,
and reached the standard for
shipment with 5 years warranty



1. Dimensional Drawing(mm)



Notes:

1. All dimension units are millimeters.
2. All dimension tolerance is ± 1 mm unless otherwise noted.

2. Features

- Multi-Chip on Lead Frame, Single Module LED Package Design
- System Design Integrating Power Supply, LED Light Engine, and Heat Sink
- Over Current, Over Voltage, Over Heat, Thunder Protection
- Choice of Correlated Color Temperatures
- (Specification Re-Defined Accordingly)
- Long lifespan for LED 50,000 hrs
- 100%Recycle,No Pollution,and UV,IR

3. Specification

● Optical

Input Voltage	90~295V AC, 50/60Hz
Power Consumption	≤ 150W (of Total System)
Power Factor	≥ 0.95
Surge	Pass
Fixed Current	Deviation < 1%
Power Efficiency	>90%
EMI Grade	EMI Class B
Protection	Over Current/Over Voltage/Over Heat/Thunder Protection
Luminance Efficacy	>150lm/W

● Electrical

Par NO Parameter	TY-SM10WL-50W	TY-SM10DW-100W	TY-SM10WW-150W
Input voltage	AC85V~277V 50/60HZ		
LED type of smd	96pcs Philips3030	144pcs Philips3030	192pcs Philips3030
Light Fixture Luminance (lm)	7500	15000	22500
Beam Angle	155°*80°		
Color Temperature	3000-6500k	3000-6500k	3000-6500k
Driver	Meanwell XLG/ELG/HLG		
IP Rating	IP65		

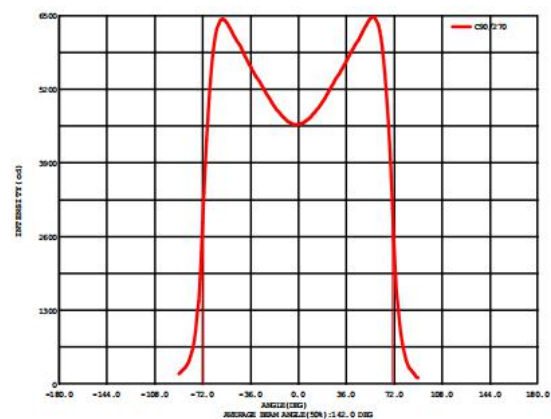
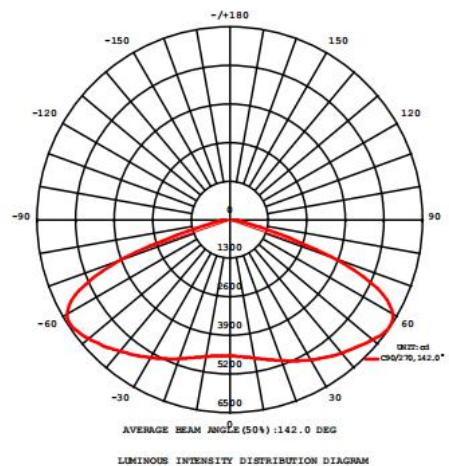
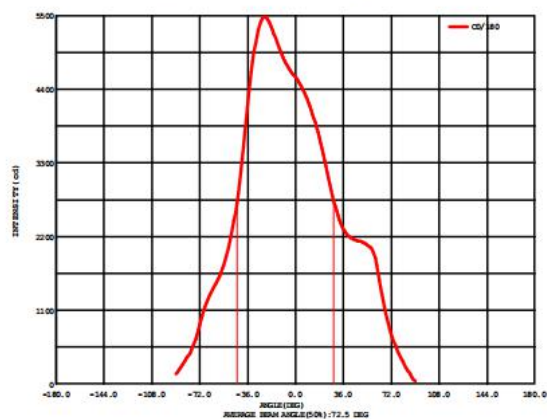
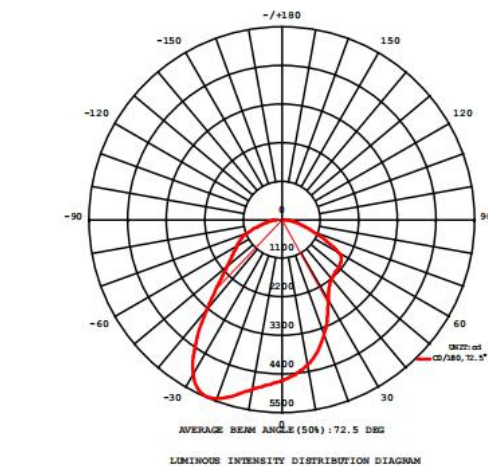
● Mechanical and System

PN	TY-SM06WL-50W	TY-SM06DW-100W	TY-SM06DW-150W
IP Level	IP65	IP65	IP65
Housing	Al alloy	Al alloy	Al alloy
Dimension	610 X240 X 125 mm	660 X260 X 125 mm	710 X290 X 125 mm
NET Weight	5 Kg	6 Kg	7 Kg
Heat Solution	Convection	Convection	Convection

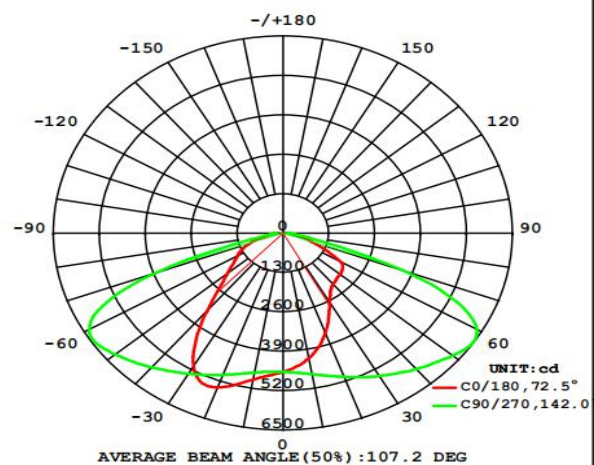
4. Photometry

● Beam Angle

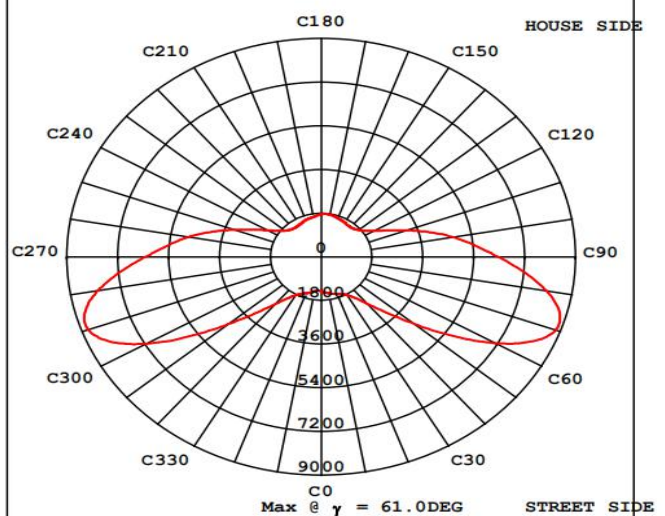
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

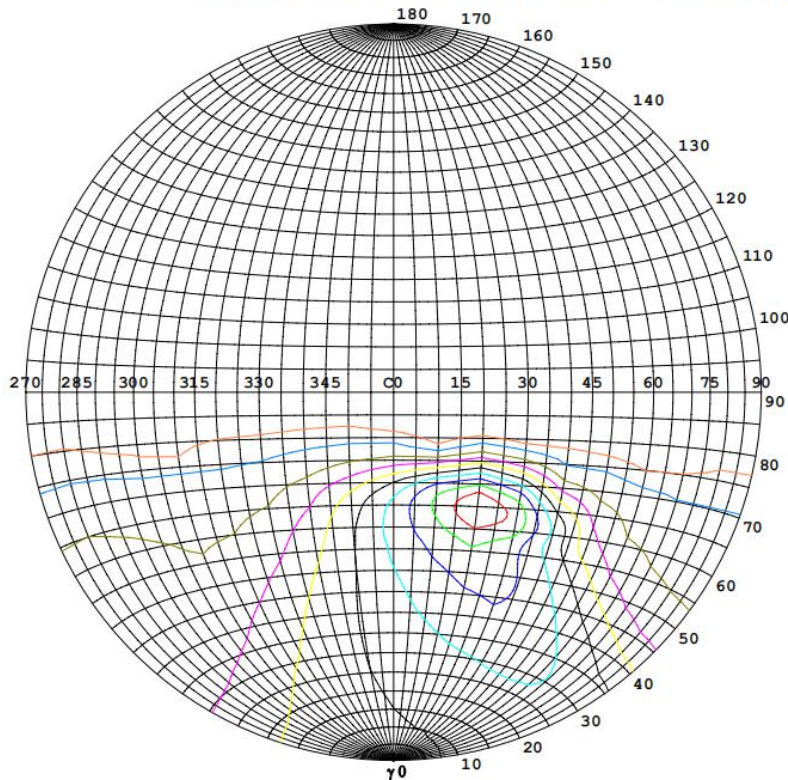


MAX INTENSITY CONE SURFACE DISTRIBUTION DIAGRAM



● 50W Polar Diagram of Luminance

STREETLIGHT ISOCANDELA DIAGRAM

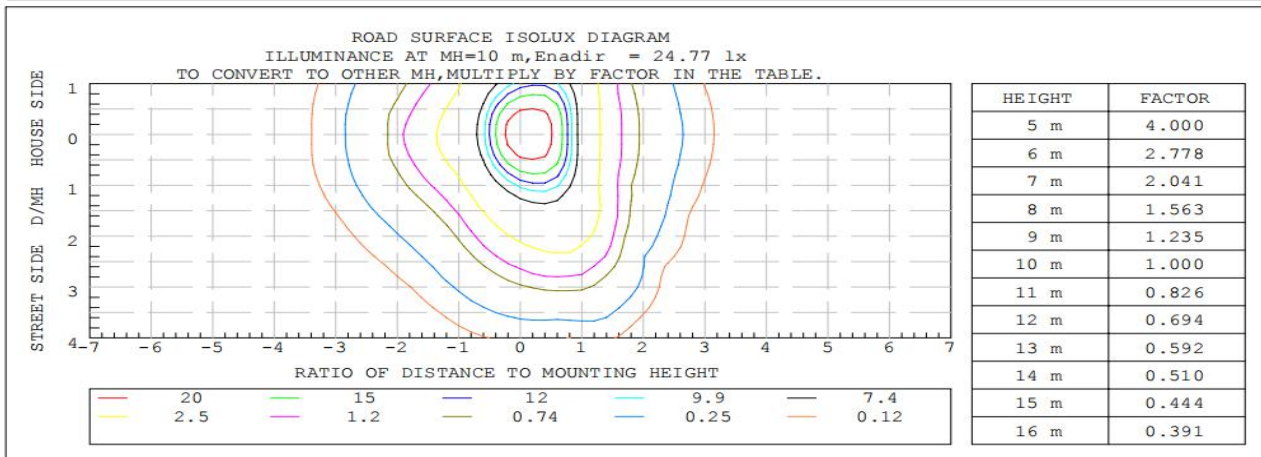
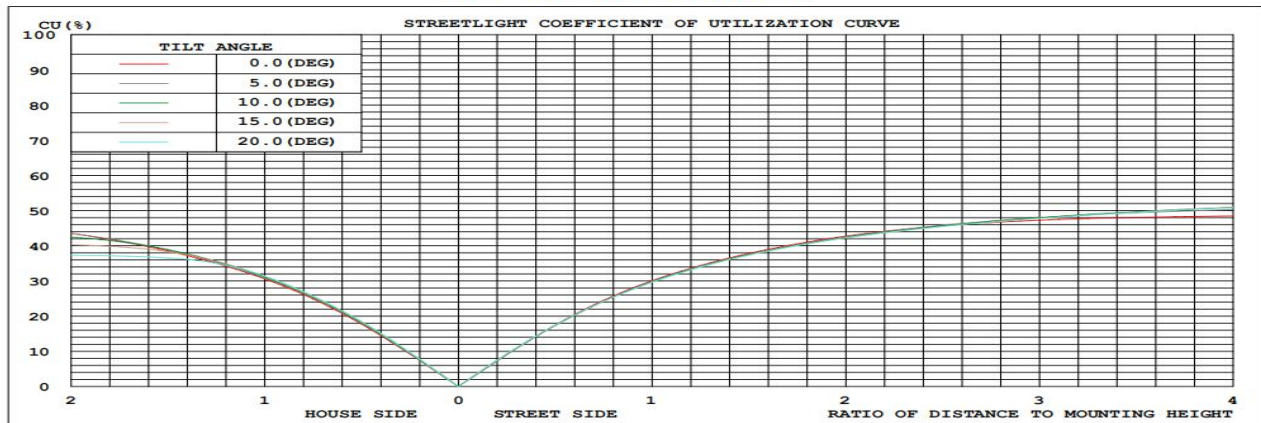


Classification:

IES:Type III - Short
 CIE:Broad - Intermediate
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:49.73cd/klm
 Max.At90:7.372cd/klm
 Max.80-90:49.73cd/klm

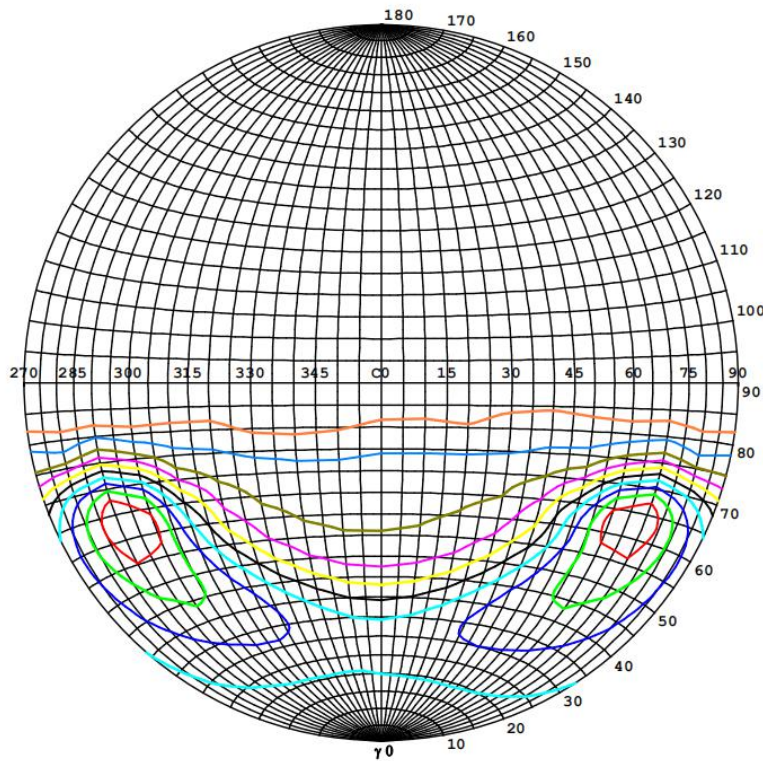
ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	5086
90%	4577
80%	4069
70%	3560
60%	3052
50%	2543
40%	2034
30%	1526
20%	1017
10%	509
5%	254

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



● 100W Polar Diagram of Luminance

STREETLIGHT ISOCANDELA DIAGRAM

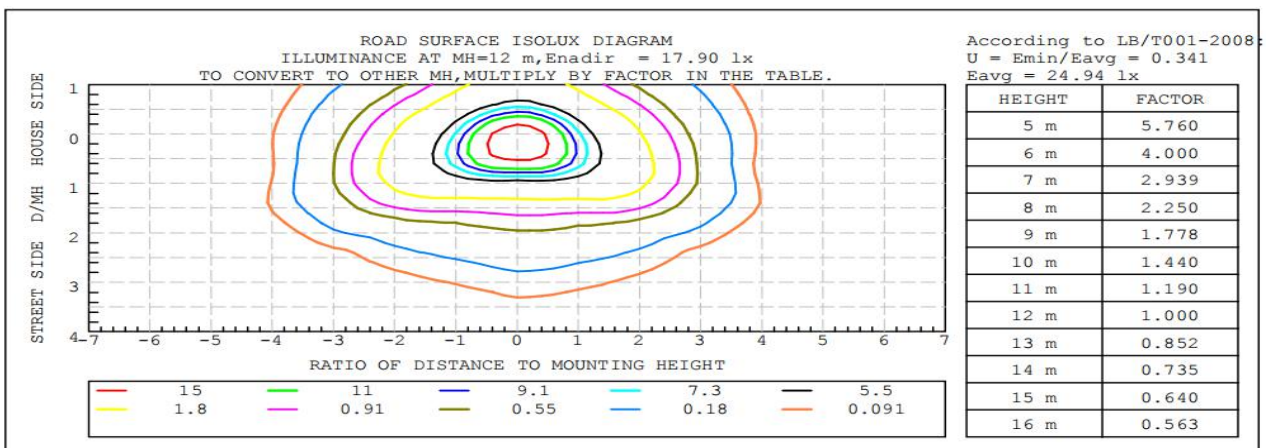


Classification:

IES:Type I - Very Short
 CIE:Narrow - Intermediate
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:46.15cd/klm
 Max.At90:12.82cd/klm
 Max.80-90:46.15cd/klm
 NRB 5101:Semi limited[14.7%]

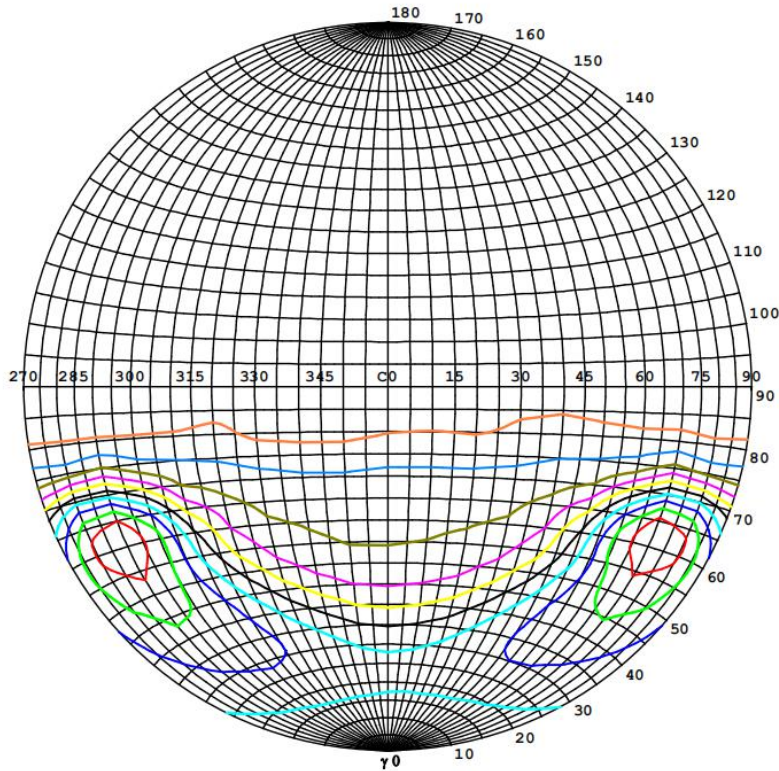
ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	4983
90%	4485
80%	3986
70%	3488
60%	2990
50%	2491
40%	1993
30%	1495
20%	997
10%	498
5%	249

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



● 150W Polar Diagram of Luminance

STREETLIGHT ISOCANDELA DIAGRAM

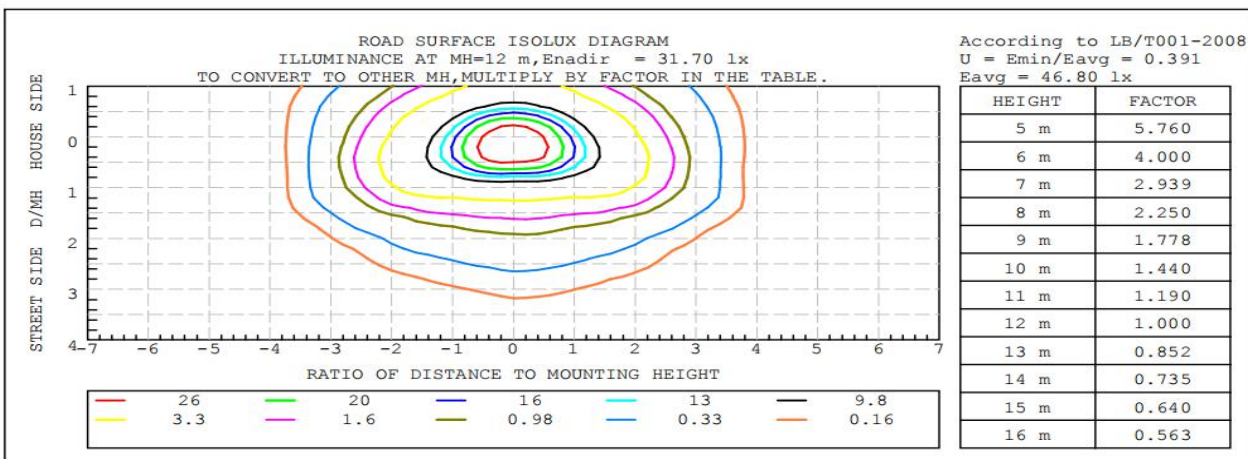


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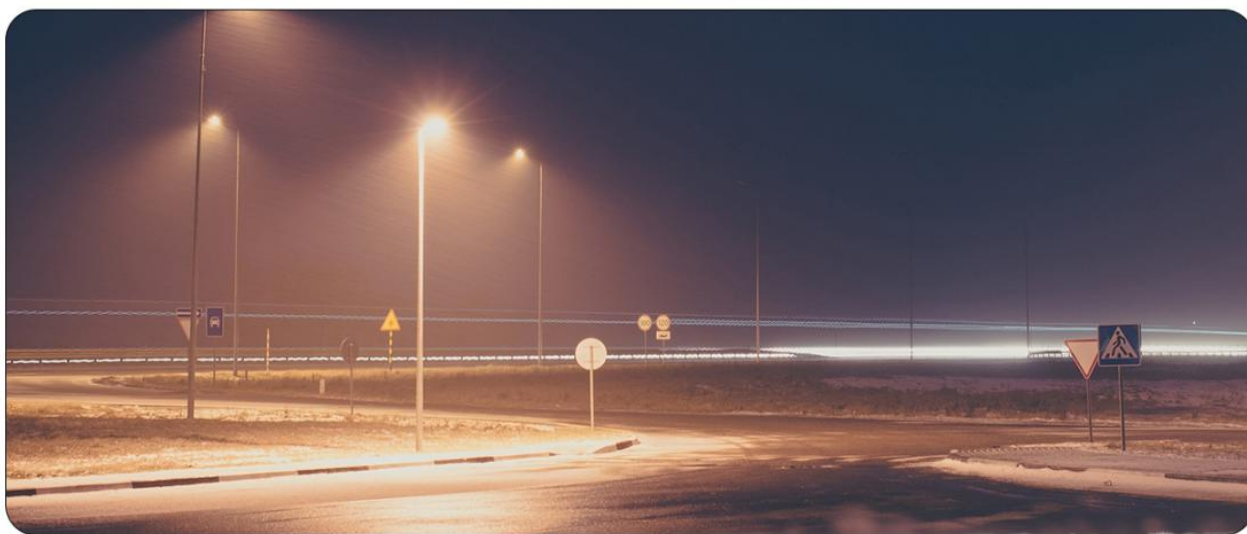
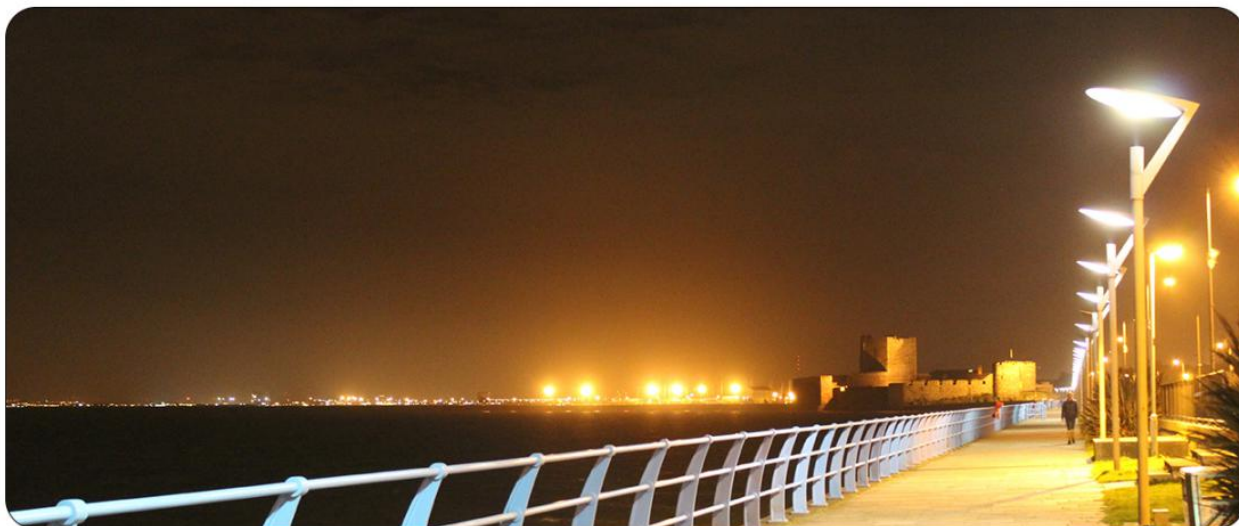
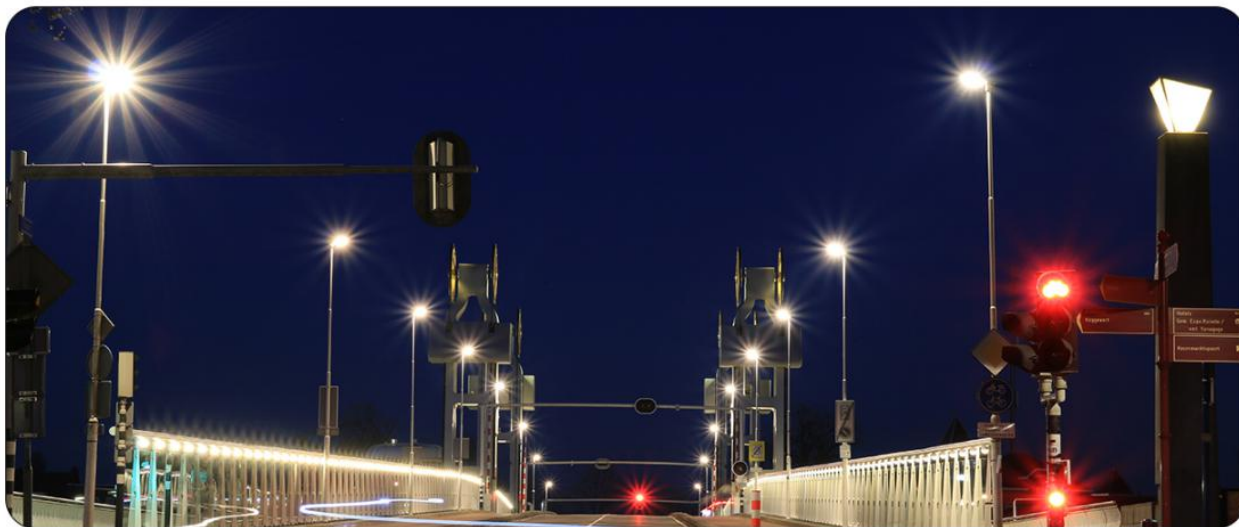
IES:Type I - Very Short
CIE:Narrow - Intermediate
IES:Cut-off
CIE:Semi-cut-off
Max.At80:35.38cd/klm
Max.At90:13.00cd/klm
Max.80-90:35.38cd/klm
NRB 5101:Limited[9.2%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	8825
90%	7942
80%	7060
70%	6177
60%	5295
50%	4412
40%	3530
30%	2647
20%	1765
10%	882
5%	441

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



5. Application



6. Operation and Storage Condition

- Operation Ambient Temperature -40 to +60°C, Relative Humidity 20~90%
- Input Voltage AC85-277V, 50/60Hz
- Storage Ambient Temperature -40 to +85°C, Relative Humidity 5~95%
- Mounting Height : Suitable for 8~40m height

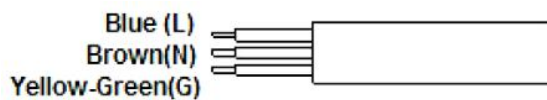
7. Certificate

- LED Lighting Certificated with CE
- Power System Certificated with UL
- The Whole Floodlight Certificated with CE

8. Assembly and Installation

● Assembly-Electricity

- Blue : Line
- Brown : Neutral
- Yellow-Green : Ground



● Installation

- The entire series of LED flood light are designed with wide range voltage, the voltage range is ac85-265volts, the frequency is 50/60Hz.
- Installation tool: A adjustable wrench group.
- Installation Steps :
 1. Tighten Axle Screw, and Locate Screw
 2. Connecting the power line of LED Flood Light to the power supplier ,finish the installation procedure.

9. The installation notices

3. No necessary using other devices for LED Flood light installation such as stabilizer, regulator and so on.
4. Opening the light and lifting the buckle is unallowable.
Soaking in the water is unallowable.

10. Warning

- Do Not Use Other Devices for LED Floodlight Installation Such as Stabilizer, Regulator ...etc

- Do Not Open the Light Engine
- Do Not Soak the Floodlight into Water
- Do Not Light up the System Without Grounding
- Do Not Use Dimmer

11. Warranty

- 5 Years Warranty Starts from Taking Delivery of Goods a Day. The Warranty Content Includes the Damage of All Components, Such as LED Light Source and Power Supply...etc.
- The Calculation of Warranty Period with Turn on the Light for a Day 8-10 Hours is Limited. As Everyday Longer Than 10 Hours, Then Gradually Decrease According to Comparison Warranty Time Limit.
- The Floodlight Must Operate at the Common Normal Environment. As in Order to be Faced by the Sea Road in 3 Kilometers or to Use in the Bad Environment Such as Tunnel, Warranty Period is Within 1 Year.
- This company must be authorized to have maintenance cost under the following situations.
- The Floodlight hasn't Operated According to the Stipulation Under the Common Normal Environment and Thus causes the Breakdown Destruction.
- Damaging of the Product Are Irresistible (Disasters, Person Disaster, Earthquake, Thunder Stroke, Typhoon...etc), the Artificial Destruction (Fallen Wound, to Strike, to Hit Hard and so on), the Artificial Mistake (Losing, Wars, Not to Take Care of Properly and so on) or Other Unusual Factor Result.
- Customers or Other Guys Add Attach, The Expansion the Revision to repair by themselves.